

ABSTRACT OF THE DISCLOSURE

Maximizing the glass forming ability of low metal-phosphate content fluoride-based glasses allows the fabrication of large-size "crystal-free" HEL windows. This involves the addition of glass stabilizer oxides such as SiO_2 , TiO_2 , Al_2O_3 . *In situ* quenching is used to fabricate large-scale HEL windows substantially free of crystals, bubbles and striation.